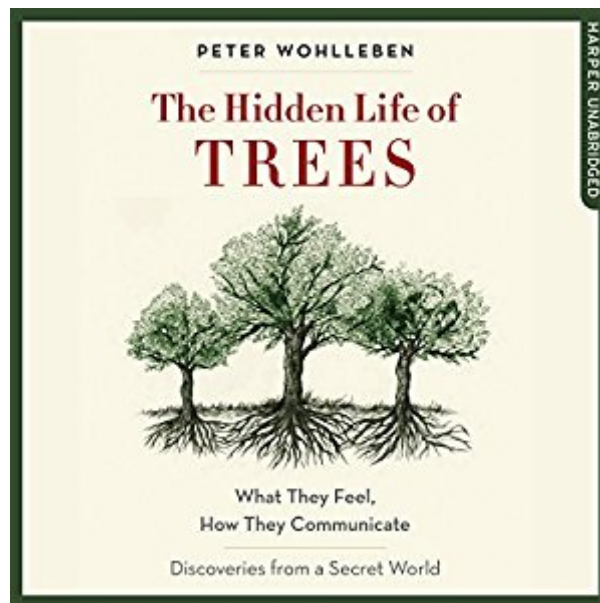




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# The Hidden Life Of Trees: What They Feel, How They Communicate - Discoveries From A Secret World



## Synopsis

How do trees live? Do they feel pain or have awareness of their surroundings? Research is now suggesting trees are capable of much more than we have ever known. In *The Hidden Life of Trees*, forester Peter Wohlleben puts groundbreaking scientific discoveries into a language everyone can relate to. In *The Hidden Life of Trees*, Peter Wohlleben shares his deep love of woods and forests and explains the amazing processes of life, death and regeneration he has observed in the woodland and the amazing scientific processes behind the wonders, of which we are blissfully unaware. Much like human families, tree parents live together with their children, communicate with them and support them as they grow, sharing nutrients with those who are sick or struggling and creating an ecosystem that mitigates the impact of extremes of heat and cold for the whole group. As a result of such interactions, trees in a family or community are protected and can live to be very old. In contrast, solitary trees, like street kids, have a tough time of it and in most cases die much earlier than those in a group. Drawing on groundbreaking new discoveries, Wohlleben presents the science behind the secret and previously unknown lives of trees and their communication abilities; he describes how these discoveries have informed his own practices in the forest around him. As he says, a happy forest is a healthy forest, and he believes that ecofriendly practices not only are economically sustainable but also benefit the health of our planet and the mental and physical health of all who live on Earth. After a walk through the woods with Wohlleben, you'll never look at trees the same way again.

## Book Information

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## Customer Reviews

As a young lad in Germany, Peter Wohlleben loved nature. He went to forestry school, and became a wood ranger. At this job, he was expected to produce as many high quality saw logs as possible, with maximum efficiency, by any means necessary. His tool kit included heavy machinery and pesticides. This was forest mining, an enterprise that ravaged the forest ecosystem and had no long-term future. He oversaw a plantation of trees lined up in straight rows, evenly spaced. It was a concentration camp for tree people. Wohlleben is a smart and sensitive man, and over the course of decades he got to know the tree people very well. Eventually, his job became unbearable. Luckily, he made friends in the community of Håmmel, and was given permission to manage their forest in a less destructive manner. There is no more clear-cutting, and logs are removed by horse teams, not machines. In one portion of the forest, old trees are leased as living gravestones, where families can bury the ashes of kin. In this way, the forest generates income without murdering trees. Wohlleben wrote *The Hidden Life of Trees*, a smash hit in Germany. It will be translated into 19 languages. The book is built on a foundation of reputable science, but it reads like grandpa chatting at fireside. He's a gentle old storyteller explaining the wondrous magic of beautiful forests to befuddled space aliens from a crazy planet named Consume. He teaches readers about the family of life, a subject typically neglected in schools. Evergreen trees have been around for 170 million years, and trees with leaves are 100 million years old. Until recently, trees lived very well without the assistance of a single professional forest manager. I'm serious! Forests are communities of tree people. Their root systems intermingle, allowing them to send nutrients to their hungry children, and to ailing neighbors. When a Douglas fir is struck by lightning, several of its close neighbors might also die, because of their underground connections. A tribe of tree people can create a beneficial local climate for the community. Also underground are mycelium, the largest organisms yet discovered. One in Oregon weighs 660 tons, covers 2,000 acres (800 ha), and is 2,400 years old. They are fungi that send threads throughout the forest soil. The threads penetrate and wrap around tree roots. They provide trees with water, nitrogen, and phosphorus, in exchange for sugar and other carbohydrates. They discourage attacks from harmful fungi and bacteria, and they filter out heavy metals. When a limb breaks off, unwelcome fungal spores arrive minutes later. If the tree can close off the open wound in less than five years, the fungi won't survive. If the wound is too large, the fungi can cause destructive rot, possibly killing the tree. When a gang of badass beetles invades, the tree secretes toxic compounds, and sends warnings to other trees via scent messages, and underground electrical signals. Woodpeckers and friendly beetles attack the troublemakers. Forests exist in a state of continuous change, but this is hard for us to see, because trees live much slower than we do. They almost appear to be frozen in time. Humans zoom through

life like hamsters frantically galloping on treadmill, and we blink out in just a few decades. In Sweden, scientists studied a spruce that appeared to be about 500 years old. They were surprised to learn that it was growing from a root system that was 9,550 years old. In Switzerland, construction workers uncovered stumps of trees that didn't look very old. Scientists examined them and discovered that they belonged to pines that lived 14,000 years ago. Analyzing the rings of their trunks, they learned that the pines that survived a climate that warmed 42°F, and then cooled about the same amount in a period of just 30 years! This is the equivalent of our worst-case projections today. Dinosaurs still exist in the form of birds, winged creatures that can quickly escape from hostile conditions. Trees can't fly, but they can migrate, slowly. When the climate cools, they move south. When it warms, they go north, like they are today because of global warming, and because they continue to adapt to the end of the last ice age. A strong wind can carry winged seeds a mile. Birds can carry seeds several miles. A beech tree tribe can advance about a quarter mile per year (0.4 km). Compared to trees, the human genome has little variation. We are like seven-point-something billion Barbie and Ken dolls. Tree genomes are extremely diverse, and this is key for their survival. Some trees are more drought tolerant, others are better with cold or moisture. So change that kills some is less likely to kill all. Wohllleben suspects that his beech forest will survive, as long as forest miners don't wreck its soil or microclimate. (Far more questionable is the future of corn, wheat, and rice, whose genetic diversity has been sharply reduced by the seed sellers of industrial agriculture.) Trees have amazing adaptations to avoid inbreeding. Winds and bees deliver pollen from distant trees. The ovaries of bird cherry trees reject pollen from male blossoms on the same tree. Willows have separate male trees and female trees. Spruces have male and female blossoms, but they open several days apart. Boars and deer love to devour acorns and beechnuts. Feasting on nuts allows them to put on fat for the winter. To avoid turning these animals into habitual parasites, nuts are not produced every year. This limits the population of chubby nutters, and ensures that some seeds will survive and germinate. If a beech lives 400 years, it will drop 1.8 million nuts. On deciduous trees, leaves are solar panels. They unfold in the spring, capture sunlight, and for several months manufacture sugar, cellulose, and other carbohydrates. When the tree can store no more sugar, or when the first hard frost arrives, the solar panels are no longer needed. Their chlorophyll is drained, and will be recycled next spring. Leaves fall to the ground and return to humus. The tree goes into hibernation, spending the winter surviving on stored sugar. Now, with bare branches, the tree is far less vulnerable to damage from strong winds, heavy wet snows, and ice storms. In addition to rotting leaves, a wild forest also transforms fallen branches and trunks into carbon rich humus. Year after year, the topsoil becomes deeper,

healthier, and more fertile. Tree plantations, on the other hand, send the trunks to saw mills. So, every year, tons of precious biomass are shipped away, to planet Consume. This depletes soil fertility, and encourages erosion. Plantation trees are more vulnerable to insects and diseases. Because their root systems never develop normally, the trees are more likely to blow down. From cover to cover, the book presents fascinating observations. By the end, readers are likely to imagine that undisturbed forests are vastly more intelligent than severely disturbed communities of radicalized consumers. More and more, scientists are muttering and snarling, as the imaginary gulf between the plant and animal worlds fades away. Wohlleben is not a vegetarian, because experience has taught him that plants are no less alive, intelligent, and sacred than animals. It's a wonderful book. I'm serious!

Review The Hidden Life of Trees Peter Wohlleben The Hidden Life of Trees is an amazing book presenting trees as sentient, purposeful beings living in dynamic relationship with each other. This is a new aspect for most of us, but apparently has been part of the secret knowledge of foresters since the early 1990s. Trees, have a sense of time, have memories, taste, smell, feel, explore, see, and hear, but not like we do. Trees even move, from generation to generation just not as individuals. Trees live on a much slower time platform than we do. This single fact has hidden the true life of the trees from us. The Hidden Life of Trees is carefully and well presented with humor, with gentleness, with compassion, with joy, even with love. The book is not a scientific, heavy fact laden tome. It is a very readable presentation of the last two decades of research into the lives of our fellow beings on Earth, the Trees. The author is a German forester, environmentalist who obviously cares very much for his topic of choice. The book was originally published in German in 2015 as *Das geheime Leben der Bäume*. The translation is beautiful prose. Granted many of the examples are of the Central European forest. But there are many examples from our US forests as well. I recommend this book to any one with a love for trees. But be prepared to revise your view of trees from objects to fellow beings here on Earth.

Wohlleben is a charming guide to magical, but very real, world. I haven't been able to look at a tree the same since reading this book.

The excellent I heard Peter Wohlleben on a radio interview about this book, and found his discussion of tree communication, community and interactions with mushrooms, so interesting that I bought the book. What impressed me was that his answers were all scientific and to the point, though some of

the questions were pretty whacky. The good part of his book is that Peter brings together in one place a really good look at forest ecology. He outlines how trees work in terms of light and water, their intricate relationship and co-dependence with the mushroom family. How they communicate, how they deal with pests and warn nearby trees of danger, how they even feed and support each other. He goes into soil ecology and also that of birds, animals and insects that live among and in the trees. I found that after reading this book, as I walked in the forest I started noticing things I had not before. That is all excellent. The style of the book is readable, but not elegant, and occasionally repetitive. But the problem with Peter's style is that he loves trees so much he wants them to be people, and his anthropomorphism can really grate. (I am not the only reviewer to note this problem.) When we talk of trees we look to ourselves to help our descriptions thus "parenting trees" is a fair metaphor. (It also works the other way when we consider our roots or our project bears fruit). But in this book metaphor morphs into reality and may have confused the author along with some of his readers. For example Peter seriously talks about trees feeling pain and trees having an emotional balance. These are very human characteristics and we share them with most animals as they are necessary to stop us killing ourselves as we learn to move about our environment and also to make choices. But it is hard to see how they would be of any advantage to a sessile tree with limited options, and so there is no obvious reason to think they would have evolved in plants. I can't help feeling that in trying to humanize trees, the wonder of what they are and how they work becomes diminished. However, this is not to say don't get this book, do! Just be forewarned to take the humanization as metaphor, not reality.

I first read it in the original German; very pleased that it is now available in English so that I can recommend it to friends and family here in the U.S. . It is a wonderful book by an author whose knowledge and gift as a writer makes it a wonderful read.

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